

CONDENSED CLIMATOLOGICAL SUMMARY.

In the following table are given for the various sections of the climatological service of the Weather Bureau the monthly average temperature and total rainfall; the stations reporting the highest and lowest temperatures with dates of occurrence; the stations reporting the greatest and least total precipitation; and other data, as indicated by the several headings.

The mean temperature for each section, the highest

and lowest temperatures, the average precipitation, and the greatest and least monthly amounts are found by using all trustworthy records available.

The mean departures from normal temperatures and precipitation are based only on records from stations that have 10 or more years of observations. Of course the number of such records is smaller than the total number of stations.

Summary of temperature and precipitation, by sections, August, 1914.

Section.	Temperature—in degrees Fahrenheit.						Precipitation—in inches and hundredths.							
	Section average.	Departure from the normal.	Monthly extremes.				Section average.	Departure from the normal.	Greatest monthly.		Least monthly.			
			Station.	Highest.	Date.	Station.			Lowest.	Date.	Station.	Amount.	Station.	Amount.
Alabama.....	79.1	- 0.6	Decatur.....	105	19	2 stations.....	59	30	6.41	+ 1.61	Robertsdale.....	12.89	Opelika.....	1.93
Arizona.....	79.9	+ 1.1	Sentinel.....	118	3	Fort Valley.....	36	31	2.11	- 0.35	Charlons Mill.....	9.41	4 stations.....	0.00
Arkansas.....	78.5	- 0.8	Newport.....	104	2	2 stations.....	57	8†	6.81	+ 3.19	Arkadelphia.....	13.74	Lewisville.....	2.82
California.....	72.1	- 0.7	Wray.....	113	5	Green Hill.....	24	19†	0.02	- 0.06	Cuyamaca.....	1.33	238 stations.....	0.00
Colorado.....	64.8	- 0.7	Wray.....	108	17	Dillon.....	25	13	1.99	+ 0.09	Steamboat Springs.....	5.36	2 stations.....	0.45
Florida.....	81.7	+ 0.6	Federal Point.....	101	8	Hilliard.....	60	1	5.70	- 1.72	Pinellas Park.....	11.51	Merritts Island.....	0.99
Georgia.....	79.1	- 0.2	3 stations.....	99	15†	Blue Ridge.....	55	10†	5.99	+ 0.39	Quitman.....	10.30	Hartwell.....	2.60
Hawaii (for July).....	74.1		Kaunapali, Maui.....	93	16	Honomau Valley, Maui.....	52	23	11.30		Hakatau (Mauka), Hawaii.....	62.26	Walope Ranch, Maui.....	0.00
Idaho.....	66.8	+ 0.6	Kooskia.....	109	14	2 stations.....	24	18†	0.16	- 0.42	Burke.....	1.30	19 stations.....	0.00
Illinois.....	76.0	+ 1.7	2 stations.....	104	6†	Lamar.....	42	15	3.43	+ 0.22	Olney.....	8.28	Equality.....	0.71
Indiana.....	74.6	+ 0.8	Hickory Hill.....	102	22	2 stations.....	46	5†	4.73	+ 1.44	Paoli.....	8.05	2 stations.....	2.40
Iowa.....	73.7	+ 1.9	Lamoni.....	103	18	2 stations.....	40	15†	2.19	- 1.49	Lake Park.....	4.90	Webster City.....	0.42
Kansas.....	78.2	+ 1.0	Alton.....	108	17	Wallace.....	47	30	3.31	+ 0.07	Oswego.....	8.17	Lakin.....	0.64
Kentucky.....	76.0	+ 0.3	3 stations.....	100	2†	3 stations.....	49	1†	5.94	+ 2.59	Alpha.....	10.29	Franklin.....	2.86
Louisiana.....	80.8	+ 1.1	Liberty Hill.....	106	1	Minden.....	59	1	7.48	+ 2.84	Lawrence.....	14.45	St. Gabriel.....	3.91
Maryland and Delaware.....	74.7	+ 1.2	Green Spring Furnace, Md.....	102	8	Deer Park, Md.....	38	16	4.73	+ 0.87	Annapolis, Md.....	9.31	Salisbury, Md.....	1.57
Michigan.....	67.3	+ 0.8	2 stations.....	100	8†	Watersmeet.....	29	24	3.91	+ 1.20	Olivet.....	8.64	Whitfish Point.....	1.70
Minnesota.....	66.1	- 0.4	Tracey.....	101	8	2 stations.....	29	24†	3.97	+ 0.37	Minneapolis (1).....	8.92	Wheaton.....	1.34
Mississippi.....	78.8	- 0.6	2 stations.....	99	11†	Charleston.....	58	1	6.75	+ 2.65	Columbus.....	12.03	Bay St. Louis.....	3.04
Missouri.....	78.0	+ 1.8	Steffenville.....	106	7	Unionville.....	49	11	4.25	+ 0.60	Mexico.....	8.31	Oregon.....	1.16
Montana.....	63.6	- 0.6	2 stations.....	105	3†	Bowen.....	15	19	0.95	- 0.25	Babb.....	4.06	4 stations.....	0.00
Nebraska.....	73.8	+ 0.9	2 stations.....	109	16†	2 stations.....	39	10†	2.69	- 0.09	Grand Island.....	7.53	Mitchell.....	0.29
Nevada.....	72.5	+ 0.2	Leeland.....	122	12†	Geysers.....	14	18†	0.14	- 0.22	San Jacinto.....	0.90	15 stations.....	0.00
New England.....	67.2	+ 0.2	Corwail, Vt.....	98	10	Bloomfield, Vt.....	32	25	3.60	- 0.15	Franklin, N. H.....	8.50	Patten, Me.....	1.00
New Jersey.....	73.3	+ 1.3	4 stations.....	98	10†	Culvers Lake.....	42	26	3.15	- 1.87	Woodbine.....	6.53	Highstown.....	1.04
New Mexico.....	70.1	- 1.0	Artesia.....	105	1	Elizabethtown.....	29	28	2.34	- 0.02	Anchor Mine.....	7.77	Cundiyo.....	0.25
New York.....	67.7	+ 0.7	Fayetteville.....	103	9	Gabriels.....	30	25	4.76	+ 1.02	Fayetteville.....	5.01	Setauket.....	1.56
North Carolina.....	76.3	+ 1.0	Greensboro.....	101	19	Banners Elk.....	45	31	4.65	- 1.31	Parkersburg.....	9.85	Rocky Mount.....	0.80
North Dakota.....	64.2	- 1.3	4 stations.....	101	3†	3 stations.....	26	26	2.18	- 0.14	Energy.....	5.06	McLeod.....	0.64
Ohio.....	72.8	+ 1.4	2 stations.....	101	19	Akron.....	41	26	5.08	+ 1.78	Waverly.....	9.26	Thurman.....	2.88
Oklahoma.....	76.6	- 1.0	Newkirk.....	110	1	Kenton.....	46	26	5.78	+ 2.76	Durant.....	12.52	Kenton.....	0.68
Oregon.....	66.7	+ 1.4	Blaock.....	109	13	Cliff.....	20	17	0.03	- 0.59	Gardners Ranch.....	0.70	64 stations.....	0.00
Pennsylvania.....	71.3	+ 1.3	Hyndman.....	100	19	West Bingham.....	34	4	3.85	- 0.32	Wilkes-Barre.....	7.20	Pocomo Pines.....	0.64
Porto Rico.....	78.6	- 0.5	Dorado.....	101	7	2 stations.....	55	2†	5.76	- 2.01	Lares.....	14.03	Hacienda Isadora.....	0.50
South Carolina.....	79.0	+ 0.2	Allendale.....	101	28†	Heath Springs.....	56	1	5.88	- 0.44	Smiths Mills.....	13.70	Gaston Shoals.....	2.62
South Dakota.....	69.5	- 0.5	Murdo.....	109	7	Eureka.....	29	26	1.99	- 0.50	Wentworth.....	4.84	Harveys Ranch.....	0.25
Tennessee.....	77.0	+ 0.7	Clarksville.....	103	2	2 stations.....	45	15†	5.85	+ 2.20	Johnsonville.....	13.70	Chattanooga.....	2.84
Texas.....	81.0	- 1.7	Brownwood.....	110	1	3 stations.....	50	24†	6.37	+ 4.55	Abilene.....	15.70	Santa Gertrudes.....	0.00
Utah.....	70.5	0.0	Springdale.....	109	15	Scotfield.....	27	23	0.41	- 0.54	Trout Creek.....	3.62	14 stations.....	0.00
Virginia.....	75.0	+ 1.2	Woodstock.....	102	19	Emory.....	46	1†	3.24	- 1.38	Speers Ferry.....	9.25	Danville.....	0.67
Washington.....	66.5	+ 0.9	Colfax.....	113	2	Newport.....	25	31	0.10	- 0.73	Quinalt.....	1.12	40 stations.....	0.00
West Virginia.....	71.8	+ 0.3	3 stations.....	100	20†	4 stations.....	40	16†	4.66	+ 1.24	Beus Run.....	9.29	Upper Tract.....	1.38
Wisconsin.....	67.1	+ 0.2	Osceola.....	100	8	Long Lake.....	31	24	4.13	+ 0.47	Minocqua.....	8.49	Racine.....	0.88
Wyoming.....	62.4	+ 0.1	Wheatland.....	109	8	Willow Creek Cabin.....	17	17	0.76	- 0.09	Burns.....	4.45	2 stations.....	0.00

DESCRIPTION OF TABLES AND CHARTS.

Table I gives the data ordinarily needed for climatological studies for about 158 Weather Bureau stations making simultaneous observations at 8 a. m. and 8 p. m., seventy-fifth meridian time daily, and for about 41 others making only one observation. The altitudes of the instruments above ground are also given.

Table II gives a record of precipitation, the intensity of which at some period of the storm's continuance equaled or exceeded the following rates:

Duration (minutes).....	5	10	15	20	25	30	35	40	45	50	60
Rates per hour (inches).....	3.00	1.80	1.40	1.20	1.08	1.00	0.94	0.90	0.87	0.84	0.80

It is impracticable to make this table sufficiently wide to accommodate on one line the record of accumulated falls that continue at an excessive rate for several hours. In such cases the record is broken at the end of each 50

minutes, the accumulated amounts being recorded on successive lines until the excessive rate ends.

At stations where no storm of sufficient intensity to entitle it to a place in the full table has occurred, the greatest precipitation of any single storm has been given, also the greatest hourly fall during that storm.

Table III gives, for about 30 stations of the Canadian Meteorological Service, the means of pressure and temperature, total precipitation and depth of snowfall, and the respective departures from normal values, except in the case of snowfall.

Chart I.—Hydrographs for several of the principal rivers of the United States.

Chart II.—Tracks of centers of high areas; and

Chart III.—Tracks of centers of low areas. The roman numerals show the chronological order of the centers. The figures within the circles show the days of the month;